

Instructions for Creating 1990-2000 Industry Crosswalks, Using the Industry Crosswalk Template

May 15, 2003

Introduction

On this website you will find national-level industry and occupation (I&O) crosswalks that provide 1990 Census I&O data converted into their equivalent Census 2000 categories, and a comparison of these 1990 data to 2000 data. Data users may want to do similar comparisons for sub-national geographic areas, such as states or counties. Using the “Template” described in these instructions, data users can apply national conversion factors to 1990 data for any geographic areas (see the “warning” below, however). The instructions below assume that a data user trying to follow these instructions is familiar with the Microsoft Office Suite, including Excel spreadsheets, but is not completely familiar with the Census Bureau’s data sets as found on our American FactFinder (AFF) website. You can use these instructions to create other spreadsheets instead of Excel, but you may have to make formatting adjustments not described here.

These instructions also work best if you use Microsoft Internet Explorer to download data from the AFF. These instructions will explain some differences in other Internet browsers, but it is virtually impossible to anticipate all the variations that different browsers can cause. **We strongly recommend that you first download the template and print these instructions**, and then match the illustrations of each step to what you see on your own computer screen to be sure you are at the right place. Note, however, that the Census Bureau changes the appearance of the AFF pages at times, so what you see on your screen may not match exactly what is shown in these instructions.

AFF now provides data from both the 1990 Census and Census 2000. The data sets used to display I&O data for all states are the 1990 Summary Tape File 3 (STF-3) and 2000 Summary File 3 (SF-3). The Census 2000 SF-3 on the AFF shows I&O data in “Detailed Tables” and “Quick Tables,” which include a “Demographic Profile of Economic Characteristics.” The Profile provides a subset of the categories found in the detailed tables.

For industry and occupation data, however, you cannot compare the categories directly across the two years. The wording of the categories is different, and, even when the words *appear* to be the same, the definitions of the categories are sometimes different. For example, major parts of “Retail trade” and “Entertainment and recreation services” were defined differently in 1990 than in 2000, even though these words appear in industry tables from both censuses. These differences were caused by the revisions to the North American Industry Classification System (NAICS) and to the Standard Occupational Classification (SOC). The Census 2000 I&O categories were derived from these two standard classifications, respectively.

The crosswalks described in these instructions will convert the 1990 STF-3 data to a 2000 basis by redistributing them into the 2000 SF-3 categories. The crosswalks perform this comparison and calculate the changes from 1990 to 2000 according to the Census 2000 SF-3 categories. At the same time they calculate similar comparisons for the categories shown in the 2000 “Quick Tables.”

Warning. The formulas contained within this crosswalk template are based on nationwide changes between 1990 and 2000 categories, as measured by two sources: the Census 2000 *Classified Index of Industries*, and a sample of responses from the 1990 Census that were “double-coded” into both the 1990 and 2000 Census categories. Different crosswalks could be created based on many different variables, including geography, sex, and race. For example, the crosswalk for industrial and occupational distributions is likely different in New York compared to Kansas, and for men compared to women. To create many different crosswalks depending on all characteristics, however, would require a very large sample controlled for all these variables. Neither financial nor human resources were available to create and analyze such a large sample. For this reason, data users using this template will have to apply the same adjustment factors and distributions to all levels of geography, both sexes, and all other characteristics, even though we know this is not a perfect method for comparing I&O data in all circumstances.

It is also possible to convert the 2000 categories into those for 1990 in order to make comparisons over time. We recommend against this conversion for two reasons: 1) the conversion factors used in these crosswalks were based on a sample of responses from the 1990 Census that were re-coded into the 2000 classifications¹; and 2) intuitively it seems better to move forward to the present and express the labor force of 1990 in 2000 terms, since Census 2000 is more up-to-date.

¹ A similar sample from Census 2000 is still being re-coded, but is not yet available for analysis.

Instructions

Part 1: Getting 1990 and 2000 Industry Data from the Census Bureau Website

1. Go to the Census Bureau Home Page <http://www.census.gov> (Figure 1 below)
 - Click on American FactFinder on the left side of the Home page.

Figure 1 (note that this and other web pages may change from time to time):

U.S. Census Bureau
United States Department of Commerce

Race & Hispanic Origin Estimates

Subjects A to Z
A B C D E F G H I
J K L M N O P Q
R S T U V W X Y Z

New on the Site

Search

American FactFinder

Access Tools

Jobs@Census

Catalog

Publications (PDF)

Related Sites

United States Census 2000

Your Gateway to Census 2000 ·
Summary File 4 - State by state release in progress ·
Summary File 3 (SF 3)

People Estimates · 2001 Area Profiles · Projections · Income · Poverty · International · Genealogy · Housing

Business Economic Census · Help with your 2002 form · Government · E-Stats · NAICS · Foreign Trade

Geography Maps · TIGER · Gazetteer

Newsroom Releases · Minority Links · Radio/TV · Photos · Race & Hispanic Origin Estimates

At the Bureau Our Strategic Plan · Regional Offices · Doing business with us · About the Bureau

Special Topics Census Calendar · The 1930 Census · Our Centennial · For Teachers · American Community Survey · Statistical Abstract · FedStats

ECONOMIC CENSUS
HELP WITH YOUR FORM

United States Census 2000 now on DVD! SUMMARY FILE 3

Population Clocks
U.S. **291,272,984**
World **6,299,834,457**
14:39 EDT Jun 18, 2003

State & County QuickFacts

Select a state

Go!

Latest Economic Indicators

Housing Starts

FOIA | Privacy Statement | Confidentiality | Quality | Accessibility | Contact Us

USCENSUSBUREAU
Helping You Make Informed Decisions

Start by getting the 1990 data, which we will adjust to make them comparable to the 2000 data:

2. American FactFinder Page (Figure 2)

- Under “Data Sets” near the center of the page, click on “1990 Summary Tape File 3.”

Figure 2:

U.S. Census Bureau **American FactFinder**

[Main](#) | [Search](#) | [Feedback](#) | [FAQs](#) | [Glossary](#) | [Help](#)

! American FactFinder will be unavailable from 8pm Thursday, February 27th until 1am Friday, February 28th for system maintenance. All times are Eastern Standard Time. We apologize for any inconvenience.

search

☒ keyword
☐ geography

-- or --

Enter a street address
 to find Census 2000 data

What's New

- [New Features in American FactFinder](#)
- [Summary File 2 Final National Release](#)
- [Population Estimates for 2002](#)
- [Guam Summary File Correction](#)

[more...](#)

Items of Interest

- [Census 2000 Gateway](#)
- [Census 2000 Release Schedule](#)
- [Census 2000 Notes and Errata \(PDF - 1.9 MB\)](#)

[more...](#)

About this Site

- [Site Tour](#)

Your source for population, housing, economic and geographic data.

Basic Facts Popular tables and maps for the U.S., states, counties, cities, towns, and American Indian reservations

☒ Tables

Order	Year	Table	Block
1	2000	100-100	100-100
2	2000	100-200	100-200
3	2000	100-300	100-300
4	2000	100-400	100-400
5	2000	100-500	100-500

☐ Maps

Show me Economic Characteristics: Employment, Income, Poverty and more **for** the United States

Data Sets All tables and maps for all geographies including the U.S., states, counties, cities, towns, American Indian reservations, metropolitan areas, zip codes, census tracts, blocks, and more

United States Census 2000

Age, Hispanic or Latino Origin, Household Relationship, Owners and Renters, Race, Sex, and more...

- [2000 Summary File 1](#) Complete geographic detail to the block level.
- [2000 Summary File 2](#) Subjects for up to 249 race or ethnic groups.
- [1990 Summary Tape File 1](#) Similar subjects from the 1990 Census.

Ancestry, Citizenship, Disability, Educational Attainment, Income, Industry, Language Spoken at Home, Marital Status, Migration, Occupation, Place of Birth, Place of Work, Poverty, Rent, School Enrollment, Tenure, Units in Structure, and more...

- [2000 Summary File 3](#) Social, economic, and housing data to the block group level.
- [1990 Summary Tape File 3](#) Similar subjects from the 1990 Census.

3. Decennial Census Data Sets Page

- The button for the selected data set will already be marked.
- Click on “Detailed Tables” at the right of the screen.

Figure 3 (next page):

Data Sets

[Load Query](#) | [Clear all selections](#)Decennial
CensusDecennial
Supplementary SurveysAmerican
Community SurveyEconomic Censuses
and SurveysPopulation
EstimatesSelect a data set below, or download data sets via [FTP](#) | [Future Releases](#)


- 2000**
- Census 2000 Summary File 3 (SF 3) - Sample Data**
Summary File 3 presents detailed population and housing data (such as place of birth, education, employment status, income, value of housing unit, year structure built) collected from a 1-in-6 sample and weighted to represent the total population.
[Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2](#)
 - American Samoa Summary File**
This file presents information about housing units and people in American Samoa. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
 - Guam Summary File**
This file presents information about housing units and people in Guam. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
 - U.S. Virgin Islands Summary File**
This file presents information about housing units and people in the U.S. Virgin Islands. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.
 - Census 2000 Summary File 2 (SF 2) 100-Percent Data**
Population and housing characteristics iterated for many detailed race and Hispanic or Latino categories, and American Indian and Alaska Native tribes.
 - Census 2000 Summary File 1 (SF 1) 100-Percent Data**
Summary File 1 presents counts and information [age, sex, race, Hispanic/Latino origin, household relationship, whether residence is owned or rented] collected from all people and housing units.
 - 108th Congressional District Summary File (Sample)**
Data from the Census 2000 Summary File 3 have been retabulated for the newly drawn 108th Congressional District boundaries.
 - 108th Congressional District Summary File (100-Percent)**
Data from the Census 2000 Summary File 1 have been retabulated for the newly drawn 108th Congressional District boundaries.
 - Census 2000 Redistricting Data (P.L. 94-171) Summary File**
The Redistricting Data (P.L. 94-171) Summary File contains summary statistics on counts of the total population, for the population 18 years and over, for 63 racial categories, and for Hispanic or Latino origin.
- 1990**
- 1990 Summary Tape File 1 (STF 1) - 100-Percent data**
Summary Tape File 1 (STF 1) contains 100% data on age, race, sex, marital status, Hispanic origin, household type and relationship, occupancy/vacancy status, tenure, units in structure, contract rent, meals included in rent, value, and number of rooms.
 - 1990 Summary Tape File 3 (STF 3) - Sample data**
Summary Tape File 3 (STF 3) contains sample data weighted to represent total population for 34 population items and 27 housing items and 100-percent counts and unweighted sample counts for total persons and total housing units.

Select from the following options:

[Detailed Tables](#)
[Quick Tables](#)
[Thematic Maps](#)
[Reference Maps](#)

[Enter a table number](#)
[List all tables](#)
[List all maps](#)

[About this data set](#)
[Technical Documentation \(PDF\)](#)

The letters PDF or symbol  indicate a document is in the [Portable Document Format](#) (PDF). You will need the [Adobe® Acrobat® Reader](#), which is available for **free** from the [Adobe website](#).

4. Screen for “Detailed Tables – Select Geography” (Figure 4)

- Select a geographic type (e.g. “State”).
- Select the geographic areas(s) (e.g., “Maryland”).
- Click “Add.”
- Click “Next.”

Figure 4:

U.S. Census Bureau **American FactFinder**

[Main](#) | [Search](#) | [Feedback](#) | [FAQs](#) | [Glossary](#) | [Help](#)

Detailed Tables ▶ Select Geography | [Change Selections](#) | [Current Selections](#)

Current Data Set: [1990 Summary Tape File 3 \(STF 3\) - Sample data](#)

• Choose a selection method ☒ list ☐ name search ☐ map

• Select a geographic type [Explain Census Geography](#)

☐ show all [geography types](#)

• Select one or more geographic areas and click 'Add'

Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland

Map It

Add ▼ **Remove ▲**

==== State =====
Maryland

Next ►

5. Screen for “Detailed Tables – Select Tables” (Figure 5)
 - Scroll down list of tables and select Table “P077, Industry”.
 - Click “Add”
 - Click “Show Table”

Figure 5:

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables ▶ Select Tables Change Selections | Current Selections

Current Data Set: [1990 Summary Tape File 3 \(STF 3\) - Sample data](#)

● Search ☒ show all tables ☐ by subject ☐ by keyword

● Select one or more tables and click 'Add'

P072. Sex By Employment Status
P073. Presence And Age Of Children And Employment Status
P074. Presence And Age Of Children By Employment Status Of Parents
P075. Sex By Work Status In 1989
P076. Sex By Work Status In 1989, Usual Hours Worked Per Week In 1989, And Weeks Worked In 1989
P077. Industry

Abbreviations:
 Black - Black or African American
 AIAN - American Indian and Alaska Native
 NHPI - Native Hawaiian and Other Pacific Islander

[What's this?](#)

Add ▼ **Remove ▲**

P077. Industry

Show Table ▶

6. Page showing the table selected (Figure 6)
- In the upper right part of the screen (on the same line as “Detailed Tables”), put the cursor on “Print/Download” and click “Download.”

Figure 6:

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables | Change Selections | Print / Download | Related Items

Print
Download

[ad Query](#) | [Save Query](#)

P077. INDUSTRY - Universe: Employed persons 16 years and over
Data Set: [1990 Summary Tape File 3 \(STF 3\) - Sample data](#) Download

NOTE: For information on confidentiality, sampling error, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expstf390.htm>.

	Maryland
Agriculture, forestry, and fisheries (000-039)	37642
Mining (040-059)	3535
Construction (060-099)	195504
Manufacturing, nondurable goods (100-229)	112176
Manufacturing, durable goods (230-399)	142768
Transportation (400-439)	106173
Communications and other public utilities (440-499)	68909
Wholesale trade (500-579)	94847
Retail trade (580-699)	372510
Finance, insurance, and real estate (700-720)	182484
Business and repair services (721-760)	136718
Personal services (761-799)	67995
Entertainment and recreation services (800-811)	29765
Professional and related services (812-899):	
Health services (812-840)	214313
Educational services (842-860)	197133
Other professional and related services (841, 861-899)	227593
Public administration (900-939)	291277

U.S. Bureau of the Census
1990 Census of Population and Housing

7. Screen for “Detailed Tables – Download” (Figure 7)

Note: the instructions shown in this step should work when using Internet Explorer, but may NOT work exactly as described for Netscape and other internet browsers. If you are not using Internet Explorer, skip Figure 7 and see further instructions after Instruction 8 below.

- Click the button for “Comma delimited (.csv).” (It may already be filled.) Do **not** click the button called “Microsoft Excel (.xls),” even though that may seem logical.
- Click “OK.”

Figure 7:

Detailed Tables ► Download

● Select a download format [Explain my choices](#)

Presentation (include titles, headnotes, footnotes)

- ☒ Comma delimited (.csv)
- ☐ Comma delimited (.csv) (transpose rows and columns)
- ☐ Tab delimited (.lst)
- ☐ Tab delimited (.lst) (transpose rows and columns)
- ☐ Rich Text Format (.rtf)
- ☐ Rich Text Format (.rtf) (transpose rows and columns)

Database compatible (data rows only) - the download file is a zip file containing one or more data files and a geographic content file

- ☐ Microsoft Excel (.xls)
- ☐ Comma delimited (.txt)

☒ Include descriptive data element names

OK **Cancel**

[Technical Documentation \(PDF\)](#)

8. At this point an inset should appear that asks whether you want to open or save this file. Open the file first to be sure you have the right table. It should look something like Figure 8 below, but the column widths may appear squeezed.
- Adjust the column widths if desired, although this is not necessary for the next steps. If adjusted, the table will look more like Figure 8.
 - Now save the file. In the upper left toolbar, click “File,” and then “Save As.” **It is absolutely necessary that you save the file in a place where you can find it later by following steps a-e directly below.**
 - Designate a hard drive** (for example, “C” or “D”).
 - Designate a directory or folder in which to save your file.**
 - Change the file type to Excel.**
 - Your computer may have given the file a default name like “DownloadDT.” **Change the file name to one that you will recognize,** like “1990inddata-MD.”
 - Click “Save.”

Note: For Netscape and other browsers, the “Comma delimited” button may not give you the same results as Internet Explorer. Instead use the button for “Tab delimited,” save the file as described in instruction 8 above, and use a “Text Import Wizard” or similar tool provided in the browser to open the file in Excel.

Regardless of which browser you use, you want the final result to look like Figure 8.

Figure 8:

P077. INDUSTRY - Universe: Employed persons 16 years and over		
Data Set: 1990 Summary Tape File 3 (STF 3) - Sample data		
NOTE: For information on confidentiality, sampling error, nonsampling error, and definitions, see http://factfinder.census.gov/home/en/datanotes/expstf390.htm .		
	Maryland	
Agriculture, forestry, and fisheries (000-039)		37642
Mining (040-059)		3535
Construction (060-099)		195504
Manufacturing, nondurable goods (100-229)		112176
Manufacturing, durable goods (230-399)		142768
Transportation (400-439)		106173
Communications and other public utilities (440-499)		68909
Wholesale trade (500-579)		94847
Retail trade (580-699)		372510
Finance, insurance, and real estate (700-720)		182484
Business and repair services (721-760)		136718
Personal services (761-799)		67995
Entertainment and recreation services (800-811)		29765
Professional and related services (812-899):		
Health services (812-840)		214313
Educational services (842-860)		197133
Other professional and related services (841, 861-899)		227593
Public administration (900-939)		291277
U.S. Bureau of the Census		
1990 Census of Population and Housing		
		2481342

Next get the Census 2000 data. Go BACK to the Census Data Sets page (Figure 9). Steps 9-16 below for the 2000 data are virtually identical to steps 3-8 above for the 1990 data.

You can also go back to the American FactFinder page (Figure 2) and click on “2000 Summary File 3” under “Data Sets,” and this also will take you to the Data Sets page.

9. Decennial Census Data Sets Page (Figure 9)

- Click on the button for “Census 2000 Summary File 3 (SF 3) – Sample Data.”
- Click on “Detailed Tables” at the right.

Figure 9:

The screenshot shows the U.S. Census Bureau American FactFinder website. The header includes the U.S. Census Bureau logo and the American FactFinder logo. Navigation links include Main, Search, Feedback, FAQs, Glossary, and Help. The page is titled "Data Sets" and has a sub-header "Load Query | Clear all selections". Below this is a navigation bar with buttons for Decennial Census, Decennial Supplementary Surveys, American Community Survey, Economic Censuses and Surveys, and Population Estimates. The main content area is titled "Select a data set below, or download data sets via FTP | Future Releases". Under the "2000" section, there are three data sets listed: "Census 2000 Summary File 3 (SF 3) - Sample Data", "American Samoa Summary File", and "Guam Summary File". Each data set has a brief description and a link to "Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2". To the right of the data sets, there is a section titled "Select from the following options:" with links for Detailed Tables, Geographic Comparison Tables, Quick Tables, Thematic Maps, Reference Maps, Custom Table, Enter a table number, List all tables, List all maps, About this data set, and Technical Documentation (PDF).

Year	Data Set	Description	Options
2000	Census 2000 Summary File 3 (SF 3) - Sample Data	Summary File 3 presents detailed population and housing data (such as place of birth, education, employment status, income, value of housing unit, year structure built) collected from a 1-in-6 sample and weighted to represent the total population. Comparing SF 3 Estimates with Corresponding Values in SF 1 and SF 2	Select from the following options: Detailed Tables Geographic Comparison Tables Quick Tables Thematic Maps Reference Maps Custom Table Enter a table number List all tables List all maps About this data set Technical Documentation (PDF)
	American Samoa Summary File	This file presents information about housing units and people in American Samoa. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.	
	Guam Summary File	This file presents information about housing units and people in Guam. All questions were asked of all persons, so both basic subjects (in SF 1 and SF 2 stateside) and detailed subjects (in SF 3 and SF 4 stateside) are included.	

10. Screen for “Detailed Tables – Select Geography” (Figure 10)

- Select a geographic type (e.g. “State”).
- Select the geographic areas(s) (e.g., “Maryland”).
- Click “Add.”
- Click “Next.”

Figure 10:

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables ▶ Select Geography Change Selections

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) [Current Selections](#)

• Choose a selection method ☒ list ☐ name search ☐ address search ☐ map ☐ geo within geo

• Select a geographic type [Explain Census Geography](#)

☐ show all [geography types](#)

• Select one or more geographic areas and click 'Add'

Kentucky
 Louisiana
 Maine
Maryland
 Massachusetts
 Michigan
 Minnesota

Map It

Add ▼ **Remove ▲**

***** State *****
 Maryland

Next ►

11. Screen for “Detailed Tables – Select Tables” (Figure 11)

- Scroll down list of tables and select Table “P49, Sex by Industry for the Employed Civilian Population 16+ Years”.
- Click “Add.”
- Click “Show Table.”

Figure 11:

U.S. Census Bureau **American FactFinder**

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables ▸ Select Tables Change Selections

Current Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#) [Current Selections](#)

• Search ☒ show all tables ☐ by subject ☐ by keyword

• Select one or more tables and click 'Add'

P44. Family Type by Employment Status	Abbreviations: Black - Black or African American AIAN - American Indian and Alaska Native NHPI - Native Hawaiian and Other Pacific Islander
P45. Presence of Own Children <18 Years by Age of Own Children by Employment Status for Females 16+ Years	
P46. Age of Own Children <18 Years in Families and Subfamilies by Living Arrangements by Employment Status of Parents	
P47. Sex by Work Status in 1999 by Usual Hours Worked per Week by Weeks Worked in 1999 for the Population 16+ Years	
P48. Family Type by Number of Workers in Family in 1999	
P49. Sex by Industry for the Employed Civilian Population 16+ Years	

Add ▼ Remove ▲ **What's this?**

P49. Sex by Industry for the Employed Civilian Population 16+ Years

Show Table ▶

12. Page showing the table selected (Figure 12)

- In the upper right part of the screen (on the same line as “Detailed Tables”), put the cursor on “Print/Download” and click “Download.”

Figure 12 (this is only part of a much larger table):

Figure 12 (this is only part of a much larger table):

U.S. Census Bureau

American FactFinder

Main | Search | Feedback | FAQs | Glossary | Help

Detailed Tables

Options

Change Selections

Print / Download

Related Items

Print

Download

ad Query | Save Query

P49. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 16 YEARS AND OVER [55] -

Universe: [Employed civilian population 16 years and over](#)

Download

Data Set: [Census 2000 Summary File 3 \(SF 3\) - Sample Data](#)

NOTE: Data based on a sample except in P3, P4, H3, and H4. For information on confidentiality protection, sampling error, nonsampling error, and definitions see <http://factfinder.census.gov/home/en/datanotes/expsf3.htm>.

	Maryland
Total:	2,608,457
Male:	1,328,420
Agriculture, forestry, fishing and hunting, and mining:	12,141
Agriculture, forestry, fishing and hunting	10,603
Mining	1,538
Construction	159,685
Manufacturing	130,362
Wholesale trade	51,270
Retail trade	139,656
Transportation and warehousing, and utilities:	92,762
Transportation and warehousing	76,291
Utilities	16,471
Information	55,824
Finance, insurance, real estate and rental and leasing:	77,609
Finance and insurance	49,920
Real estate and rental and leasing	27,689
Professional, scientific, management, administrative, and waste management services:	176,094
Professional, scientific, and technical services	125,906
Management of companies and enterprises	429
Administrative and support and waste management services	49,759
Educational, health and social services:	139,525
Educational services	72,608
Health care and social assistance	66,917
Arts, entertainment, recreation, accommodation and food services:	88,683
Arts, entertainment, and recreation	22,532

13. Screen for “Detailed Tables – Download” (Figure 13)

Note: as with Step 7 above, the instructions shown in this step should work when using Internet Explorer, but may NOT work exactly as described for Netscape and other internet browsers. If you had to use the alternate instructions provided after Instruction 8 above to download the 1990 data, then use the same instructions here instead of 13 and 14 to download the 2000 data. The final result should look like Figure 14 below.

- Click the button for “Comma delimited (.csv).” (It may already be filled.) Do not click the button called “Microsoft Excel (.xls),” even though that may seem logical.
- Click “OK.”

Figure 13:

Detailed Tables ▸ Download

• Select a download format [Explain my choices](#)

Presentation (include titles, headnotes, footnotes)

- ☒ Comma delimited (.csv)
- ☐ Comma delimited (.csv) (transpose rows and columns)
- ☐ Tab delimited (.lst)
- ☐ Tab delimited (.lst) (transpose rows and columns)
- ☐ Rich Text Format (.rtf)
- ☐ Rich Text Format (.rtf) (transpose rows and columns)

Database compatible (data rows only) - the download file is a zip file containing one or more data files and a geographic content file

- ☐ Microsoft Excel (.xls)
- ☐ Comma delimited (.txt)

☒ Include descriptive data element names

OK Cancel

[Technical Documentation \(PDF\)](#)

14. At this point an inset should appear that asks whether you want to open or save this file. Open the file first to be sure you have the right table. It should look something like Figure 14 below, but the column widths may appear squeezed.
- Adjust the column widths if desired, although this is not necessary for the next steps. If adjusted, the table will look more like Figure 14.
 - Now save the file. In the upper left toolbar, click “File,” and then “Save As.” **It is absolutely necessary that you save the file in a place where you can find it later by following steps a-e directly below.**
 - a. **Designate a hard drive** (for example, “C” or “D”).
 - b. **Designate a directory or folder in which to save your file.**
 - c. **Change the file type to Excel.**
 - d. Your computer may have given the file a default name like “DownloadDT.” **Change the file name to one that you will recognize,** like “2000inddata-MD.”
 - e. Click “Save.”

Figure 14: (on next page)

P49. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 16 YEARS AND OVER [55] - Universe: Employed civilian population 16 years and over	
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data	
NOTE: Data based on a sample except in P3, P4, H3, and H4. For information on confidentiality protection, sampling error, nonsampling error, and definitions see http://factfinder.census.gov/home/en/datanotes/expsf3.htm .	
□	
	Maryland
Total:	2,608,457
Male:	1,328,420
Agriculture, forestry, fishing and hunting, and mining:	12,141
Agriculture, forestry, fishing and hunting	10,603
Mining	1,538
Construction	159,685
Manufacturing	130,362
Wholesale trade	51,270
Retail trade	139,656
Transportation and warehousing, and utilities:	92,762
Transportation and warehousing	76,291
Utilities	16,471
Information	55,824
Finance, insurance, real estate and rental and leasing:	77,609
Finance and insurance	49,920
Real estate and rental and leasing	27,689
Professional, scientific, management, administrative, and waste management	176,094
Professional, scientific, and technical services	125,906
Management of companies and enterprises	429
Administrative and support and waste management services	49,759
Educational, health and social services:	139,525
Educational services	72,608
Health care and social assistance	66,917

Part 2: Copying the 1990 and 2000 Data into the Template and Creating the Crosswalks

1. If you have not already copied or downloaded the Template, go back to the Industry Table Crosswalk Menu page from which you downloaded these instructions. Open the Template from this website (the third item on the Menu page). Most of the cells are blank, but some contain zeros. The template will automatically compute data for the zero cells once you start copying data to the blank cells. Copy data from other files only into the blank cells, as described in the next steps.
2. Go to the file you created containing the 1990 data (e.g. "1990inddata-MD"). Use the "Window" feature in your top toolbar to toggle between files. Data (numbers) should appear in column B under the name of the geographic area you selected (e.g., "Maryland"). The first line with a number should be the one for "Agriculture, forestry, and fisheries."
 - Copy the cells in column B of this table for "Agriculture, forestry, and fisheries" through "Public administration" (18 cells total) into Template Section 1, column D, rows 12-29. (Note: one cell is blank.)
 - The Template Section 1 should look like Figure 15. At this point the Template will automatically provide a Total in cell D11, transfer figures to Section 3, convert the data to the 2000 categories in Sections 4 and 5, and copy the results to Section 6.

Figure 15:

1990-2000 Census Tabulation Crosswalk Template: Industry			
Area: Maryland			
Level 1: Most Basic, Broadest Categories			
Direction: Changes from 1990 Categories to 2000 Categories (1990-2000)			
Section 1: Copy the Following Data From the 1990 Census STF-3 Detailed Tables:			
P077. INDUSTRY - Universe: Employed persons 16 years and over			
Note: 1990 STF-3 provides data for Total Employed only.			
			Total
Employed persons 16 years and over			2,481,342
Agriculture, forestry, and fisheries (000-039)			37,642
Mining (040-059)			3,535
Construction (060-099)			195,504
Manufacturing, nondurable goods (100-229)			112,176
Manufacturing, durable goods (230-399)			142,768
Transportation (400-439)			106,173
Communications and other public utilities (440-499)			68,909
Wholesale trade (500-579)			94,847
Retail trade (580-699)			372,510
Finance, insurance, and real estate (700-720)			182,484
Business and repair services (721-760)			136,718
Personal services (761-799)			67,995
Entertainment and recreation services (800-811)			29,765
Professional and related services (812-899):			
Health services (812-840)			214,313
Educational services (842-860)			197,133
Other professional and related services (841, 861-899)			227,593
Public administration (900-939)			291,277

Go to the file you created containing the 2000 data (e.g. "2000inddata-MD"). Data (numbers) should appear in column B under the name of the geographic area you selected (e.g., "Maryland"). The first line with a number should be the one for "Total:."

- Copy the 27 cells in column B for "Male:" through "Public administration" (omit "Total" and stop just before "Female") to Template Section 2, column **I**, rows **11-37**.
- Copy the next 27 cells in column B for "Female:" through "Public administration" to Template Section 2, column **J**, rows **11-37**.
- The Template will automatically compute totals in section 2, column K, and transfer figures to Section 6. Template Sections 1 and 2 should look like Figure 16.

Figure 16 (on next page):

1990-2000 Census Tabulation Crosswalk Template: Industry											
Area: Maryland											
Level 1: Most Basic, Broadest Categories											
Direction: Changes from 1990 Categories to 2000 Categories (1990-2000)											
Section 1: Copy the Following Data From the 1990 Census STF-3 Detailed Tables:						Section 2: Copy the Following Data From the Census 2000 SF-3 Detailed Tables:					
P077. INDUSTRY - Universe: Employed persons 16 years and over						P51. SEX BY INDUSTRY FOR THE EMPLOYED CIVILIAN POPULATION 16 YEARS AND OVER					
Note: 1990 STF-3 provides data for Total Employed only.						Note: 2000 SF-3 provides data for employed by sex; copy data using instructions provided into the Male & Female columns; this table will compute the Total column.					
							Male:	Female:	Total:		
			Total			Total (Civilian Employed Population 16 and Over):	1,328,420	1,280,037	2,608,457		
Employed persons 16 years and over			2,481,342			Agriculture, forestry, fishing and hunting, and mining:	12,141	4,037	16,178		
Agriculture, forestry, and fisheries (000-039)			37,642			Agriculture, forestry, fishing and hunting	10,603	3,810	14,413		
Mining (040-059)			3,535			Mining	1,538	227	1,765		
Construction (060-099)			195,504			Construction	159,685	21,595	181,280		
Manufacturing, nondurable goods (100-229)			112,176			Manufacturing	130,362	58,965	189,327		
Manufacturing, durable goods (230-399)			142,768			Wholesale trade	51,270	21,351	72,621		
Transportation (400-439)			106,173			Retail trade	139,656	133,683	273,339		
Communications and other public utilities (440-499)			68,909			Transportation and warehousing, and utilities:	92,762	34,532	127,294		
Wholesale trade (500-579)			94,847			Transportation and warehousing	76,291	29,805	106,096		
Retail trade (580-699)			372,510			Utilities	16,471	4,727	21,198		
Finance, insurance, and real estate (700-720)			182,484			Information	55,824	47,527	103,351		
Business and repair services (721-760)			136,718			Finance, insurance, real estate and rental and leasing:	77,609	108,550	186,159		
Personal services (761-799)			67,995			Finance and insurance	49,920	82,526	132,446		
Entertainment and recreation services (800-811)			29,765			Real estate and rental and leasing	27,689	26,024	53,713		
Professional and related services (812-899):						Professional, scientific, management, administrative, and waste management services:	176,094	147,740	323,834		
Health services (812-840)			214,313			Professional, scientific, and technical services	125,906	107,760	233,666		
Educational services (842-860)			197,133			Management of companies and enterprises	429	493	922		
Other professional and related services (841, 861-899)			227,593			Administrative and support and waste management services	49,759	39,487	89,246		
Public administration (900-939)			291,277			Educational, health and social services:	139,525	398,825	538,350		
						Educational services	72,608	163,603	236,211		
						Health care and social assistance	66,917	235,222	302,139		
						Arts, entertainment, recreation, accommodation and food services:	88,683	88,658	177,341		
						Arts, entertainment, and recreation	22,532	18,600	41,132		
						Accommodation and food services	66,151	70,058	136,209		
						Other services (except public administration)	66,263	79,161	145,424		
						Public administration	138,546	135,413	273,959		

At this point the converted 1990 data will appear next to the 2000 data in Template Section 6. Section 6 also computes the 1990-2000 changes in terms of the 2000 Census categories. Insert the geographic area name in row 2, and save the file with a new name. Sections 5 and 6 of the final product should look like Figure 17.

Figure 17 (on next page):

[illegible]